

#### GuangDong FuDianKang Power Co., Ltd. ShenZhenFuDianKang Diesel Gensets Co., Ltd. Tel:86-13710087995

Web: www.fdkenergy.comEmail: info@fdkenergy.com

# DATA SHEET

DIESEL GENERATOR 176KW MODEL#FDK-CD220/H1 50HZ/1500RPM CUMMINS MODEL: 6CTAA8.3G2



#### **General Features:**

- All qualified generator sets are subjected to a comprehensive performance test which includes 50% load, 70% load, 100% load, 110% load and to check, verify that all control systems, alarm and shut-down protection.
- Equipped with battery charger and 24V high performance maintenance-free lead-acid starting batteries and connecting cables.
- Stainless galvanized zinc plates with strong corrosion-proof.
- Vibration isolators between the engine/alternator and base frame.
- Equipped with industrial silencer and flexible exhaust hose.
- Designed to comply with ISO8528/GB2820.
- Powered by Cummins engine and coupled with Stamford alternator.
- Water jacket preheater, oil heater and double air cleaner, etc. are available.

I DR Dieser Generator Set	Data				
Genset Model	FDK-CD220/H1		Engine Make	Cummins	
Prime Power	160KW/200KVA	200KVA Engine Model		6CTAA8.3G2	
Standby Power	176KW/220KVA		Alternator model	Stamford UCI274H	
Output Frequency / Rated speed	50Hz/1500rpm		Control System	DSE7320	
Rated Voltage	230V/400V		Phase	Three	

## FDK Diesel Generator Set Data

(1) **Prime power**: The rating is available for an unlimited of annual operating hours in variable load applications, in accordance with ISO8528-1.A 10% overload is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046-1.

(2) **Standby power**: The rating is applicable for supplying emergency power in variable load applications for up to 200 hours per year in accordance with ISO8528-1. Overload is not allowed.

(3) Rated voltage: available with customer requirement.

## Engine Specifications (DETAILED in APPENDIX)

6CTAA8.3G2	Aspiration	Turbo-charged	
Cummins (China	Bore x Stroke (mm x mm)	114×135	
Dongfeng)	Displacement	8.3L	
6	Compression Ratio	16.5:1	
Not available	Prime power / Speed (KW/RPM)	183/1500	
Not available	Standby power/ Speed (KW/RPM)	203/1500	
	Cummins (China Dongfeng) 6 Not available	Cummins (China Bore x Stroke (mm x mm)   Dongfeng) Displacement   6 Compression Ratio   Not available Prime power / Speed (KW/RPM)	



ISO9001:2015FDK reserves the right to change the specifications and designs without notice.



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Speed governor	GAC
Piston Speed	6.8m/s
Friction Energy Output	17kw
Total Lubrication System Capacity (L)	23.8
Coolant Capacity (L)	12.3

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(g/KWh)	
Starter motor	DC24V
Alternator	DC24V
Low idle	700-950rpm

## **Alternator Specifications**

Alternator model	UCI274H	Numl
Alternator manufacturer	STAMFORD	Rate
Exciter type	Single bearing, Brushless,	
	Self-excited	Powe
Rated output prime power	200KVA	Volta
Rated speed	1500 rpm	Insula
Rated frequency	50Hz	Prote

Number of phase	3
Rated voltage	400V (A <mark>va</mark> ilable with
	custom requirements)
Power factor	0.8
Voltage regulation NL-FL	≤±1%
Insulation grade	н
Protection grade	IP23

Alternator option: Leroy Somer, MECC, Marathon, Engga, Faraday

## Control System DSE7320 (DETAILED in INSTRUCTION)

DSE7320 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, breaker control and automatically start the engine when the mains are abnormal. Accurately measure various operational parameters and display all values and alarms information on the LCD. In addition, the control module can automatically shut down the engine and indicate the engine failure.

#### FEATURES

- Microprocessor control, with high stability and credibility.
- Monitoring and measuring operational parameters of the mains supply and genset. ٠
- Indicating operation status, fault conditions, all parameters and alarms.
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and remote work mode selectable.
- Real time clock for time and date display, overall runtime display, 250 log entries.
- Overall power output display. .
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed etc.
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol. ٠

## Soundproof Enclosure Specification

FDK silent generator is designed by professional acoustic engineers based on years of experience. Now we can make the noise of the generator less than 80-85dB(A) at 1m, or 70-75dB(A) at 7m, 60-65dB(A) at 15m.

#### **FEATURES**

- ٠ Multi-way air intake and exhaust guarantee the power performance of the generator.
- Large-scale impedance combined type silencer effectively reduce noise of the generator.
- Internal high performance rubber damper and flexible materials reduce vibration.
- Base mounted fuel tank supports the generator running for 8 hours. •



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### Optional

Ger	erator set	Alter	mator	Low	environment Temp	ATS	
	Open generator set		Stamford		Water heater		CHINT
	Silent generator set		Marathon		Oil heater		SCHNEIDER
	Trailer generator set		Mecc Alte		Battery heater		ABB
	ABB MCCB circuit breaker		Leroy Somer				
			Farady				
			Engga				
Fue	l system	Con	trol system	Volta	age	Syn	chronized system
	12hrs base tank		AMF function		415/240V		CHINT Cabinet
	24hrs base tank		ATS control cabinet		400/230V		SCHNEIDER Cabinet
	Dual wall base fuel tank		DSE7320		380/220V		DSE8610 Module
	Outside fuel tank		DSE7510		220/127V		COMAQ Module
			GU620A		200/115V		DEIF Module
Dir	nension & Weight				19		

## Dimension & Weight Open

Overall Size:	2400×975×1393
L×W×H (mm)	
Weight (kg)	1800

Soundpr	oof	Versio	n
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Overall Size: LxWxH (mm)	3100X1400X1800
We <mark>igh</mark> t (kg)	2900

## **Sales Promises**

- FDK provides a full line of brand new and high quality products. Each and every unit is strictly factory tested before shipment.
- Quality warranty is according to our standard conditions: 12 months from BL date or 1000 running hours, whichever comes first.
- Service and parts are available from FDK or distributors in your location.
- FDK guarantee use BRAND NEW & GENUINE MACHINE.

